



Appendix A

20dB bandwidth measurement

According to FCC Part 15.247 (a) (1)



Channel 0 (2402MHz)





Channel 40 (2442MHz)

Agilent
R T

Ch Freq 2.442 GHz **Trig** Free

Occupied Bandwidth

Center Freq
2.44200000 GHz

Start Freq
2.44100000 GHz

Stop Freq
2.44300000 GHz

CF Step
200.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Ref 20 dBm #Atten 30 dB

Center 2.442 000 GHz Span 2 MHz
#Res BW 30 kHz #VBW 100 kHz #Sweep 10 ms (601 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
893.0770 kHz	x dB -20.00 dB
Transmit Freq Error 16.314 kHz	
x dB Bandwidth 852.944 kHz	

File Operation Status, C:PICTURE.GIF file saved



Channel 78 (2480MHz)





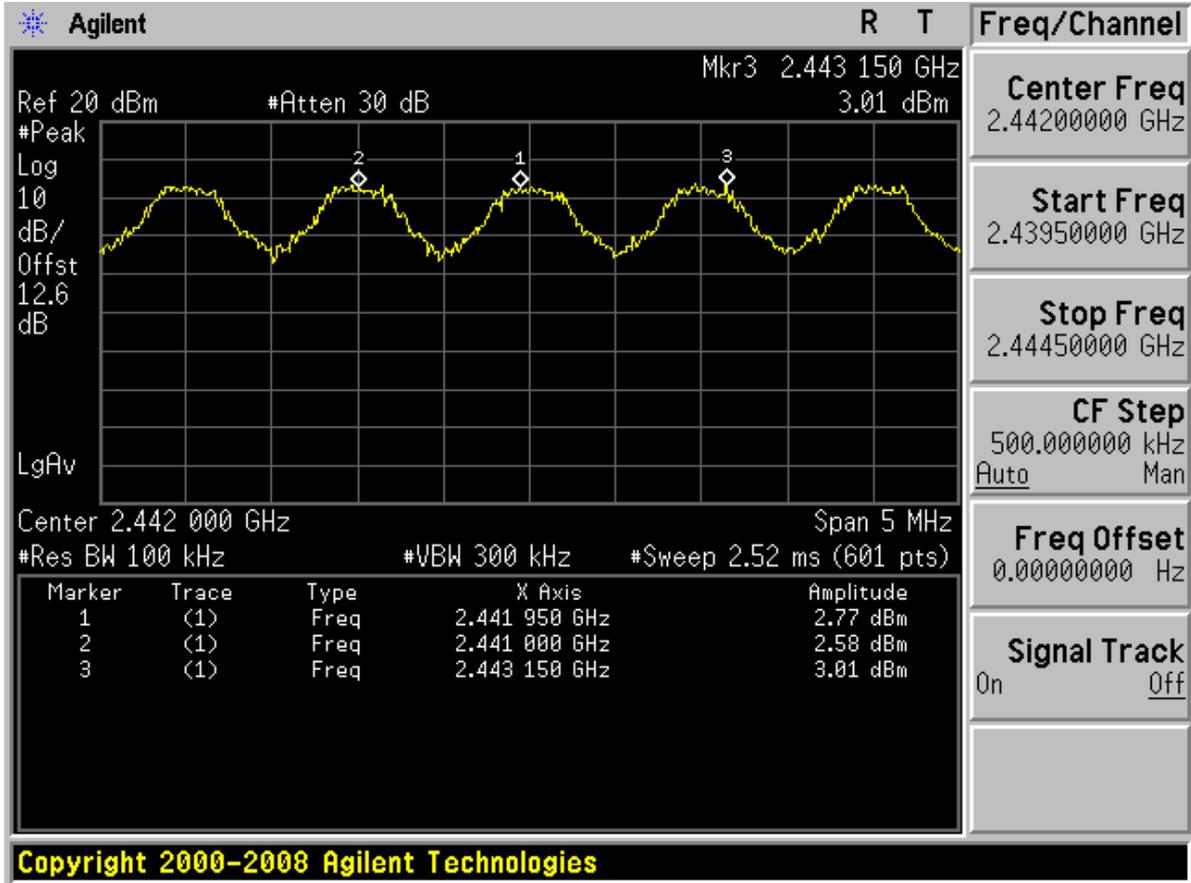
Appendix B

Carrier frequency separation measurement

According to FCC Part 15.247 (a) (1)



Centred at Channel 40





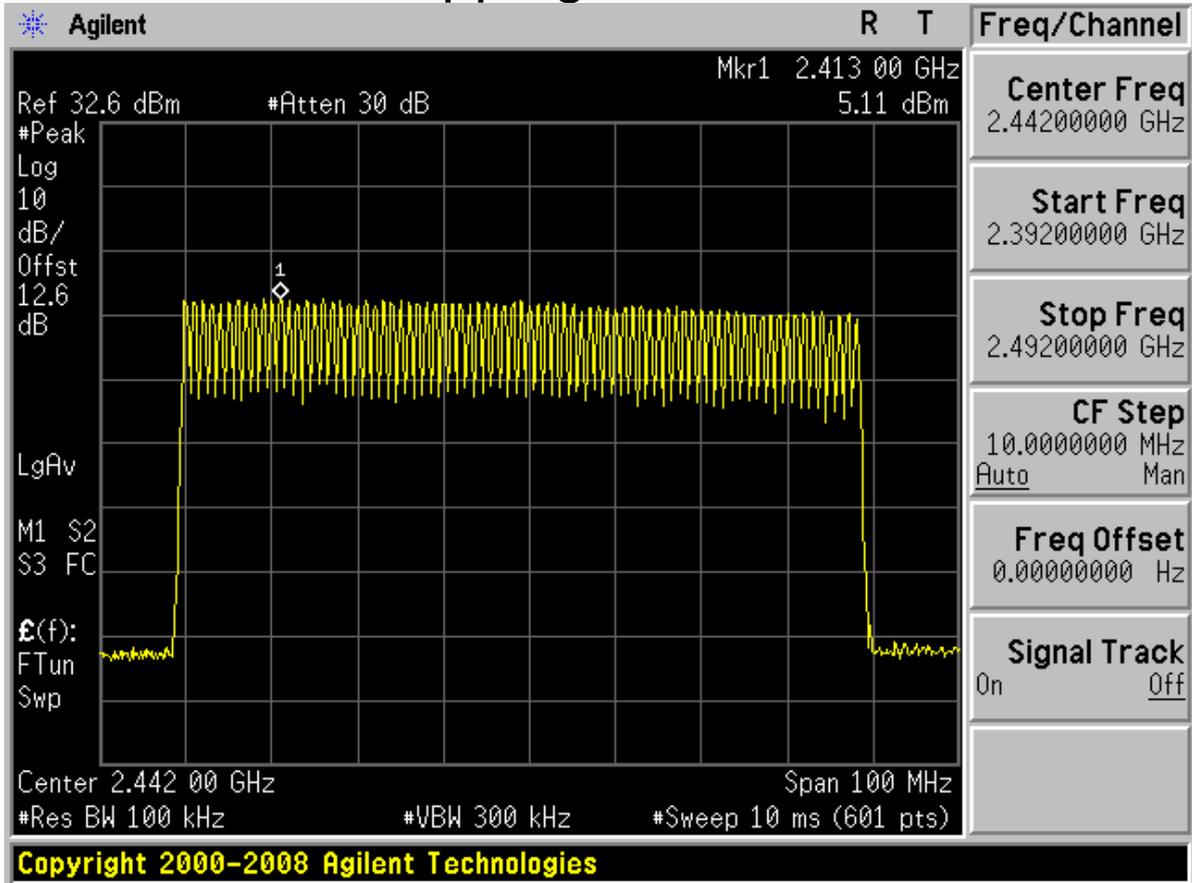
Appendix C

Number of hopping channel

According to FCC Part 15.247 (a) (1) iii



Total hopping channels = 79





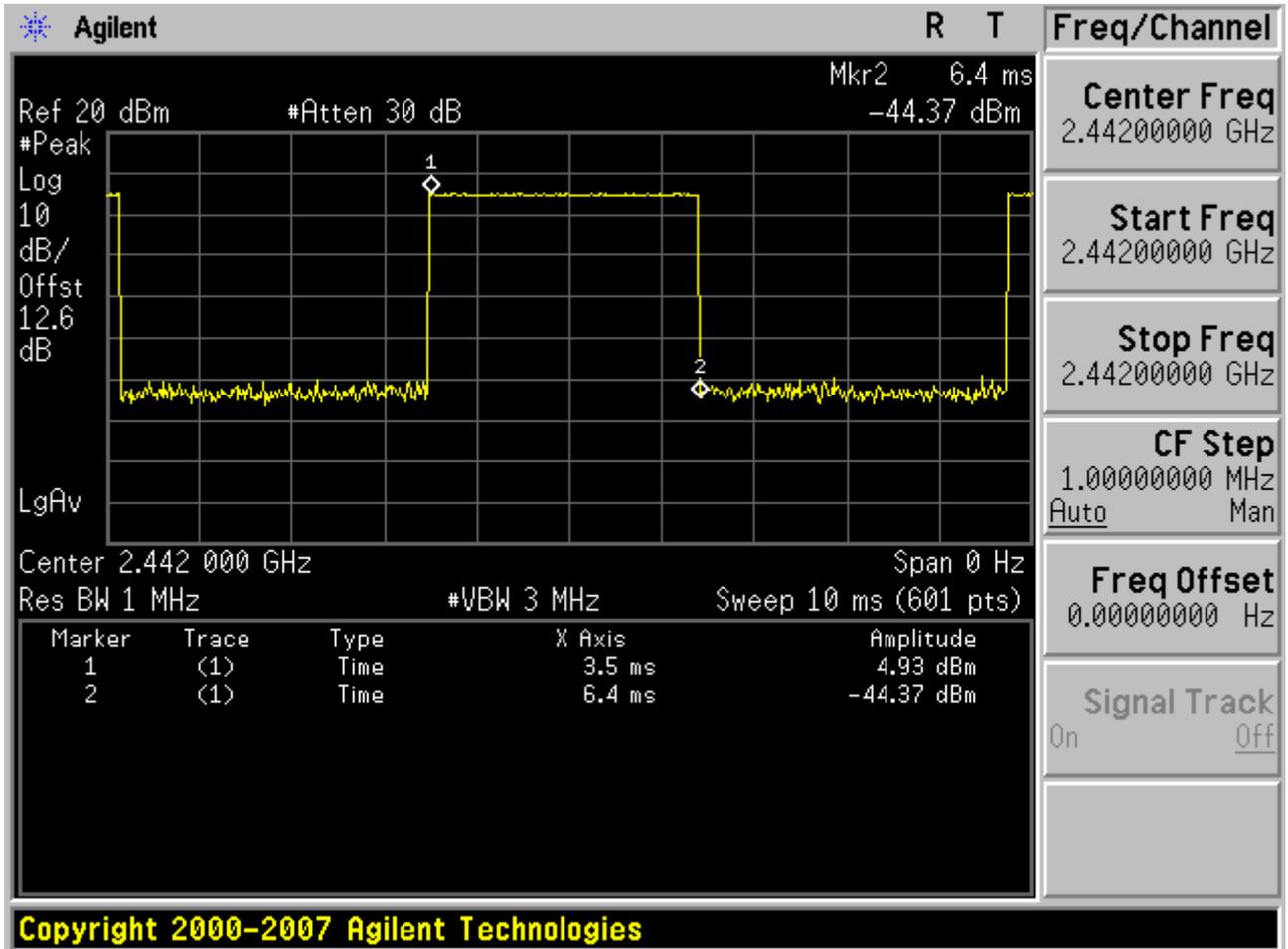
Appendix D

Time of occupancy

According to FCC Part 15.247 (a) (1) iii

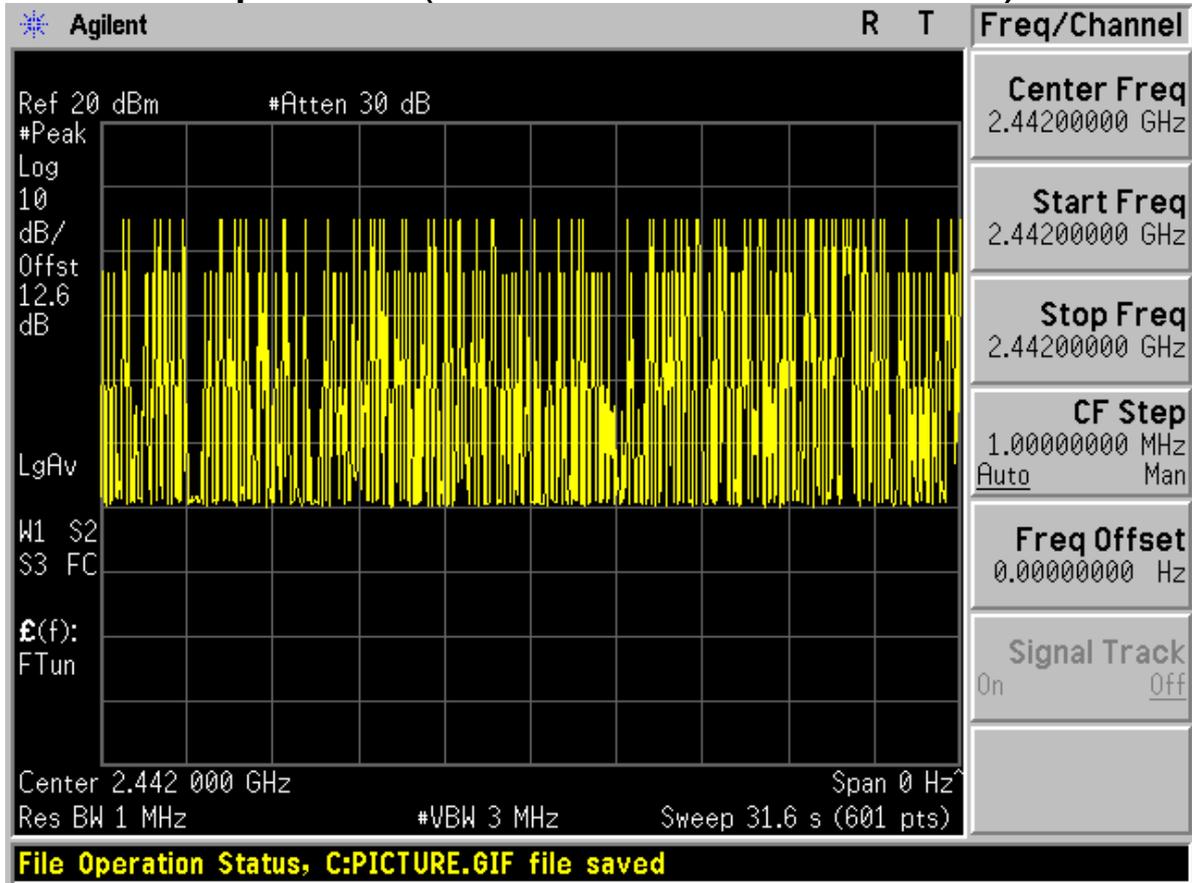


A burst (One time slot)





A period (Less than 106.7 burst)





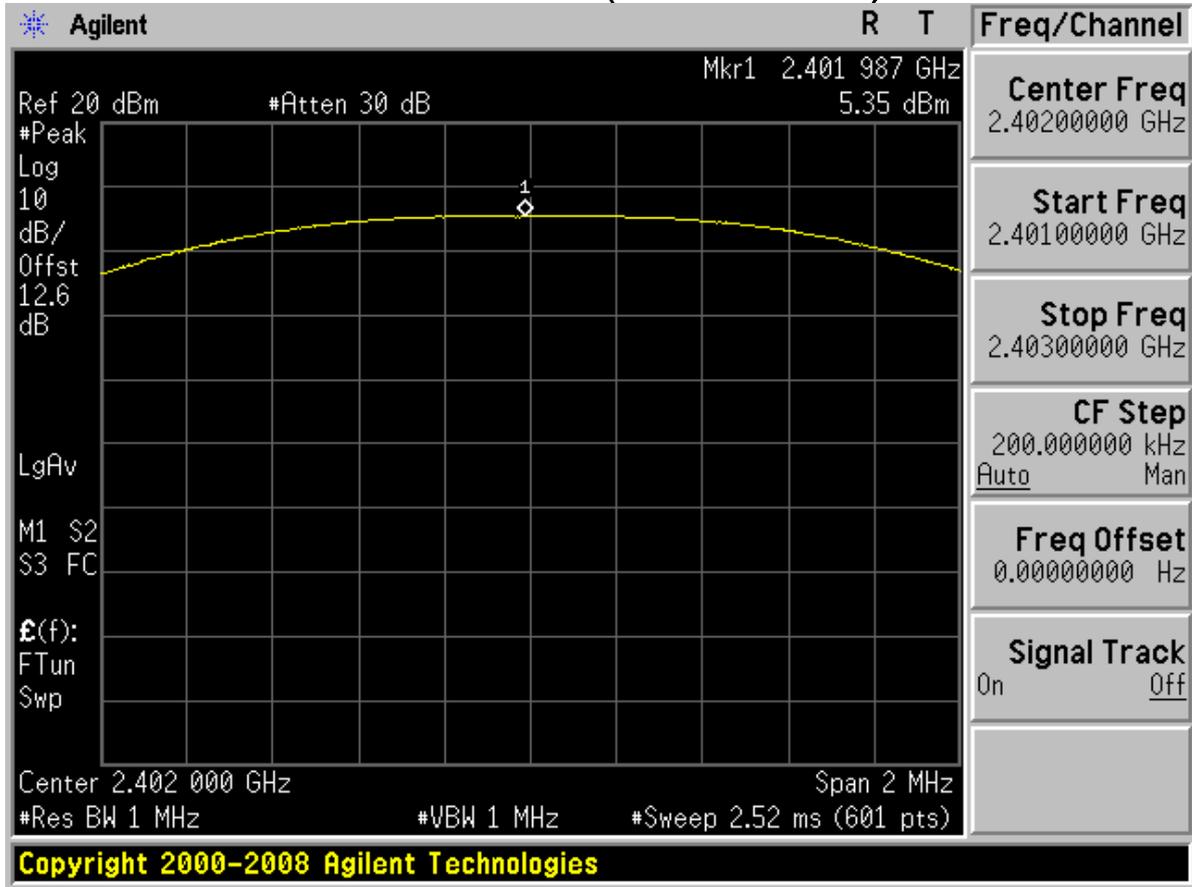
Appendix E

Peak output power

According to FCC Part 15.247 (b) (1)

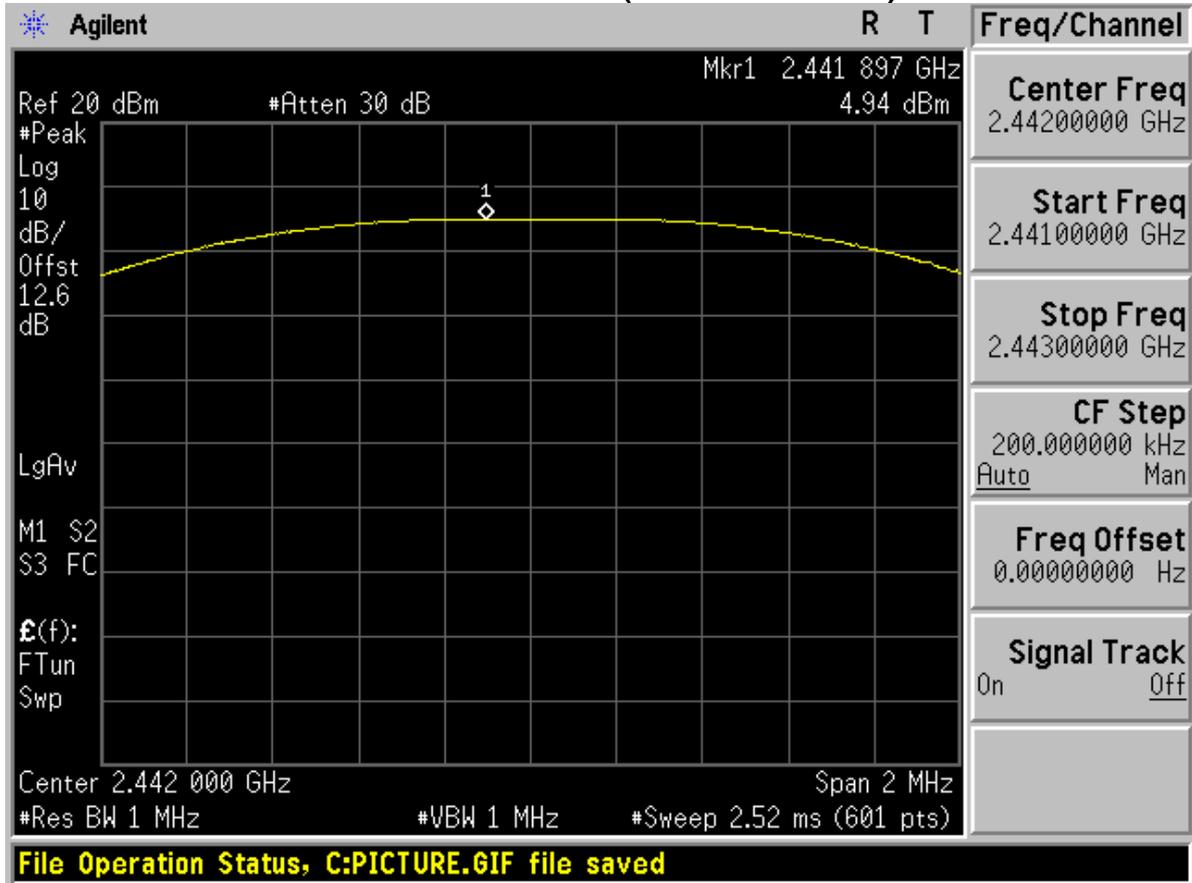


Channel 0 (2402MHz)



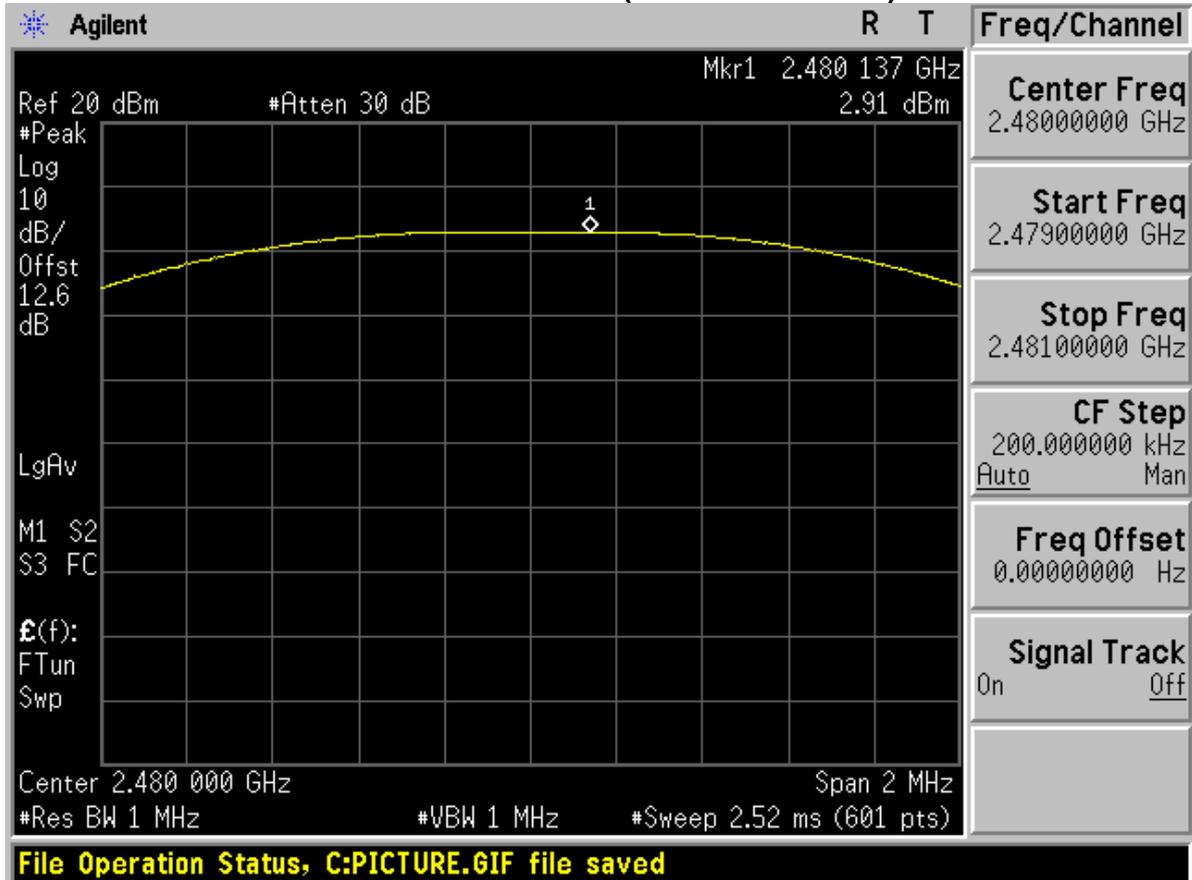


Channel 40 (2442MHz)





Channel 78 (2480MHz)





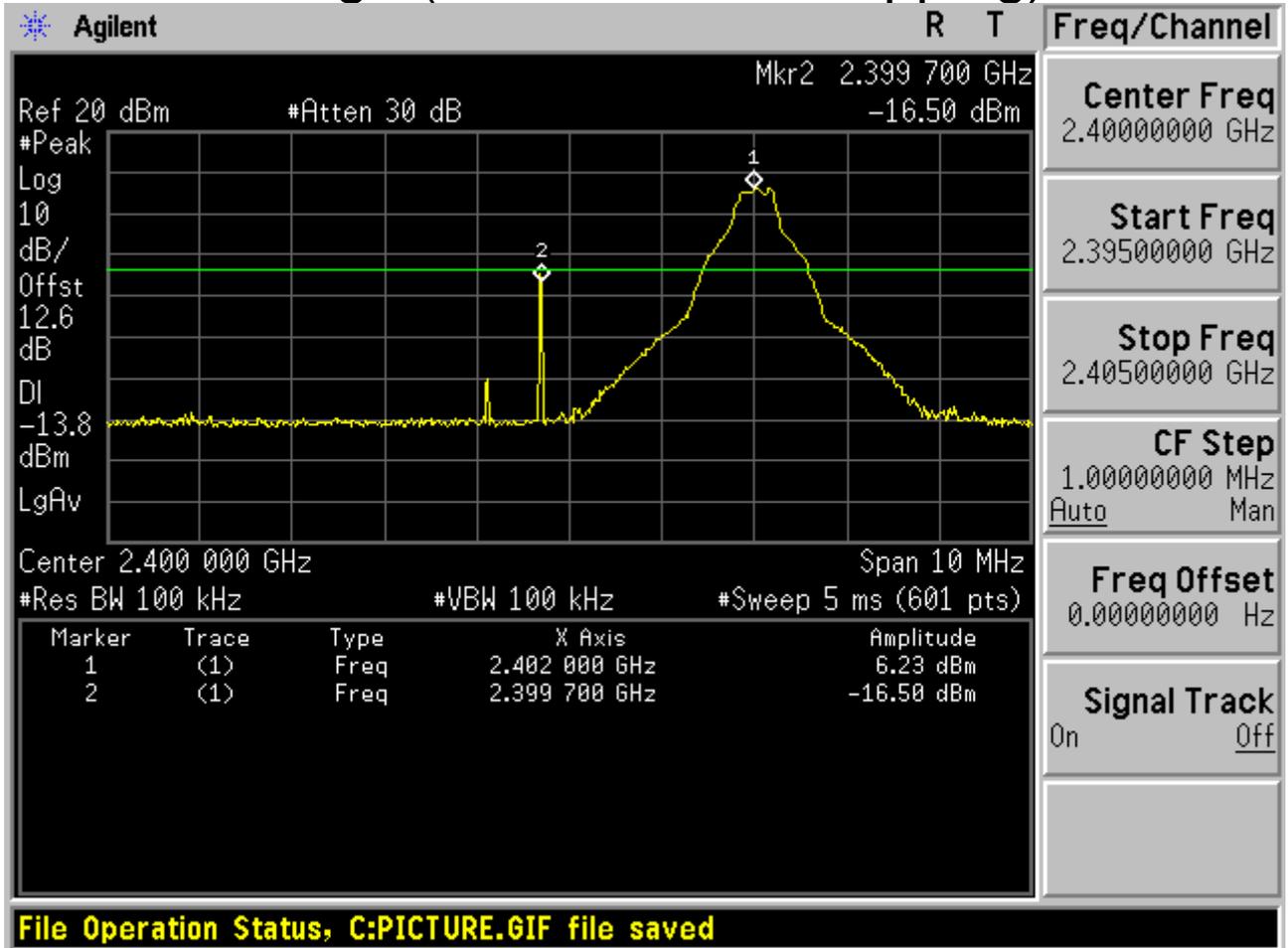
Appendix F

Band edge spurious emission

According to FCC Part 15.247 (d)

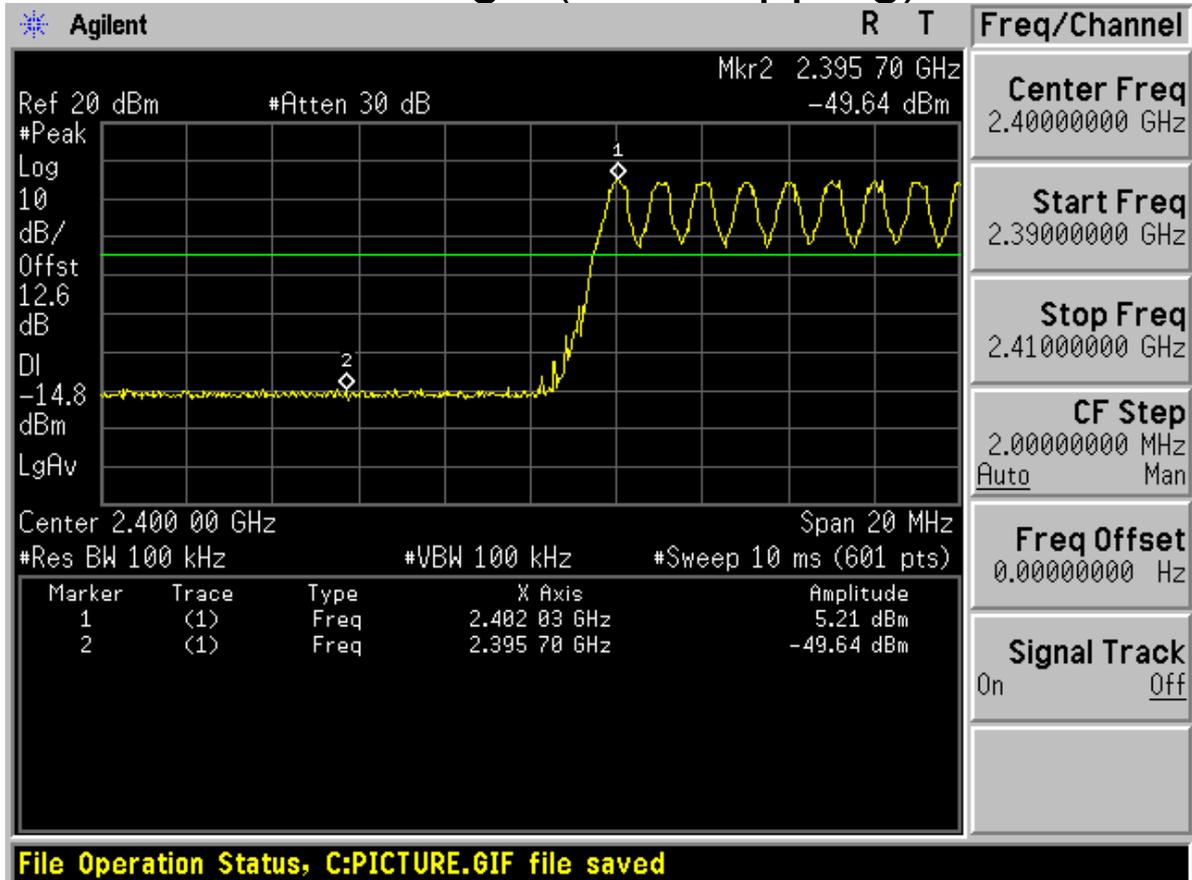


Low edge (Channel 0, no hopping)



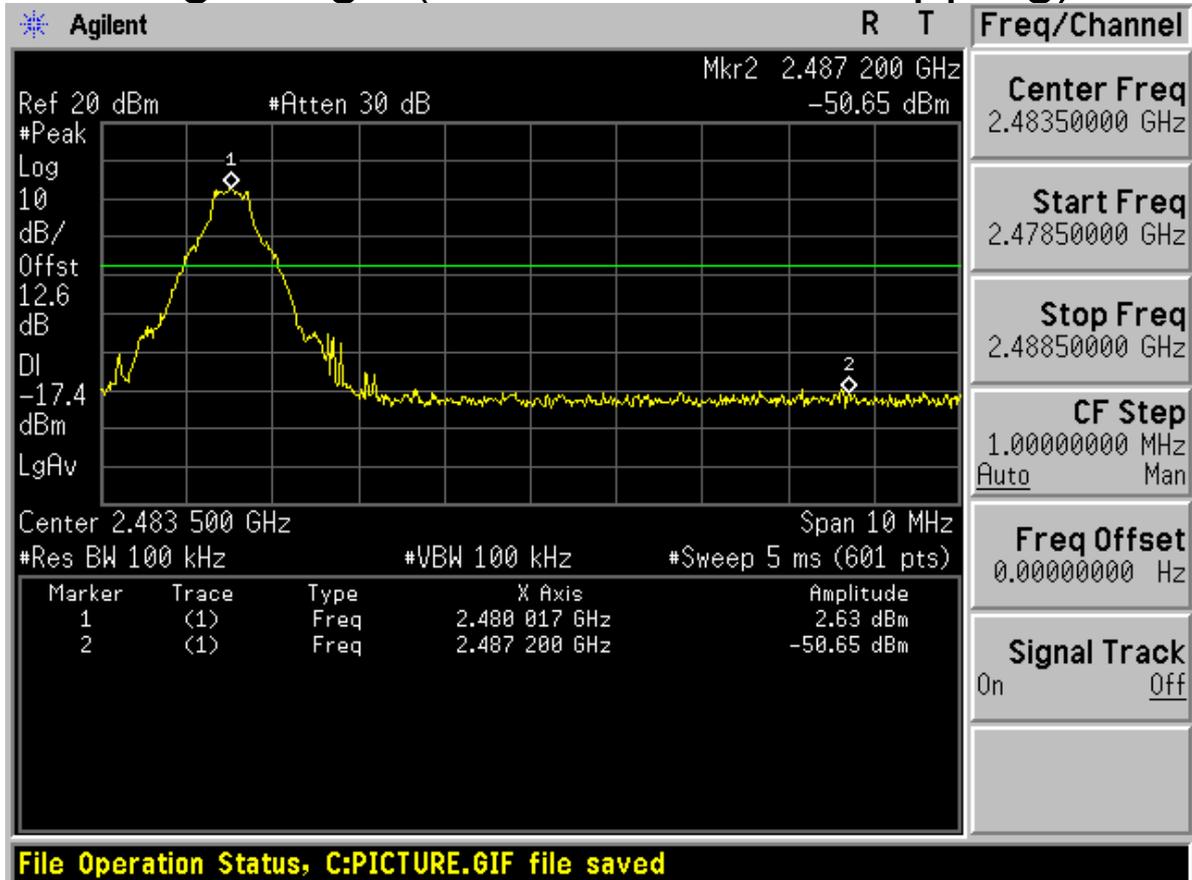


Low edge (with hopping)



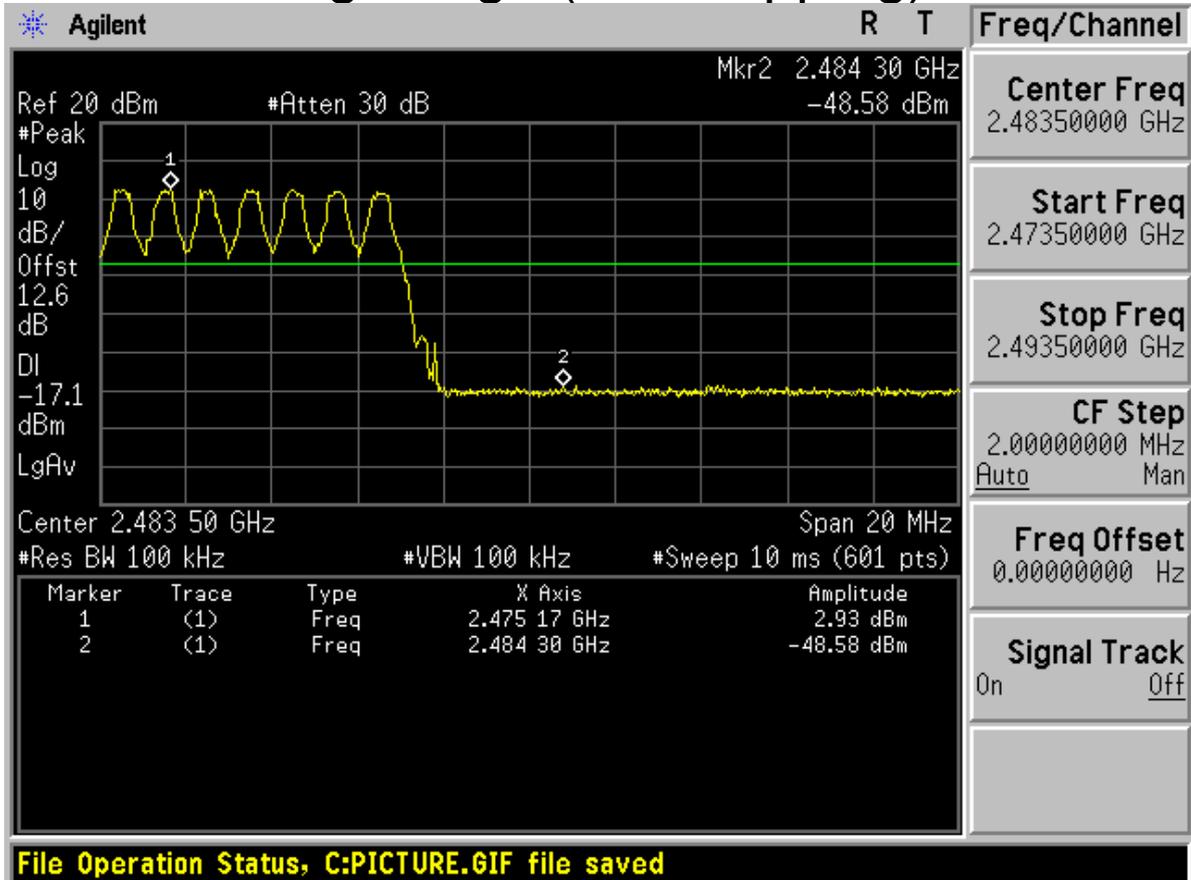


High edge (Channel 78, no hopping)





High edge (with hopping)





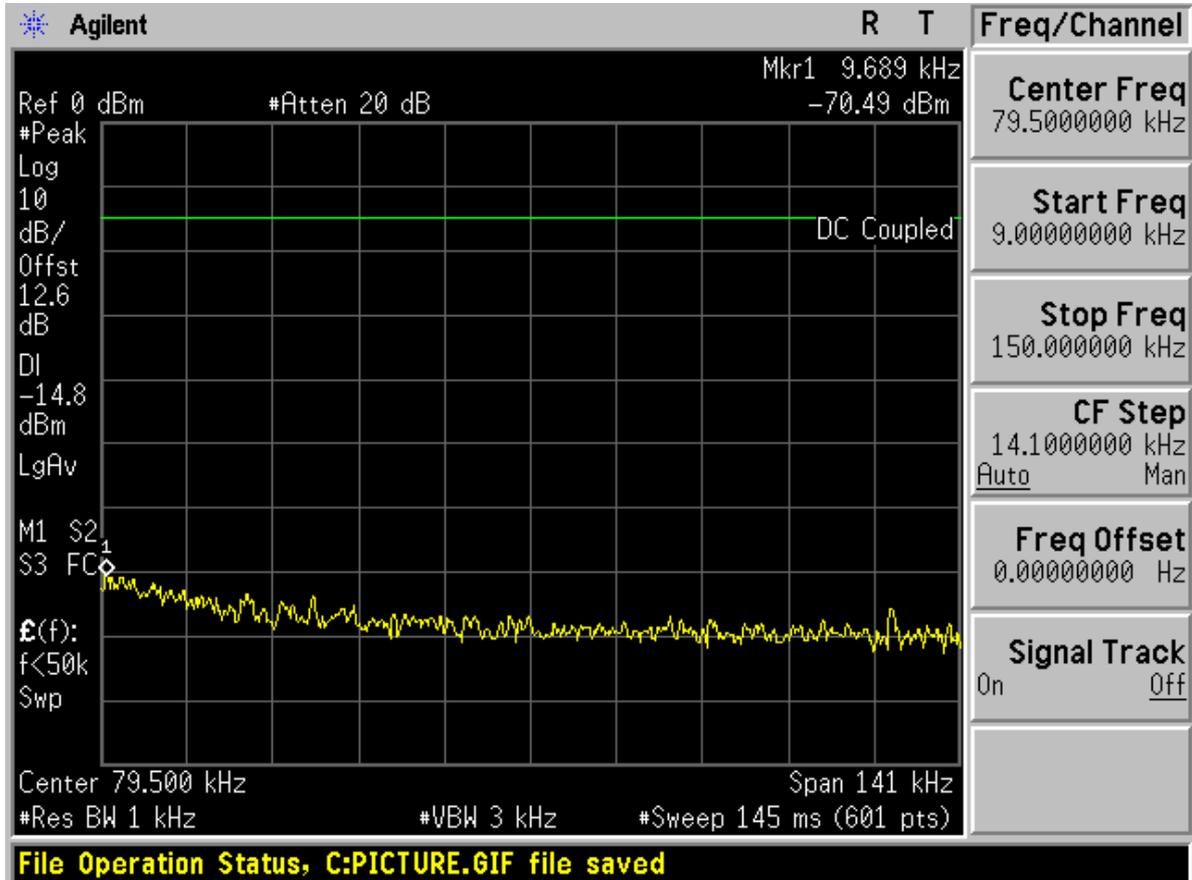
Appendix G

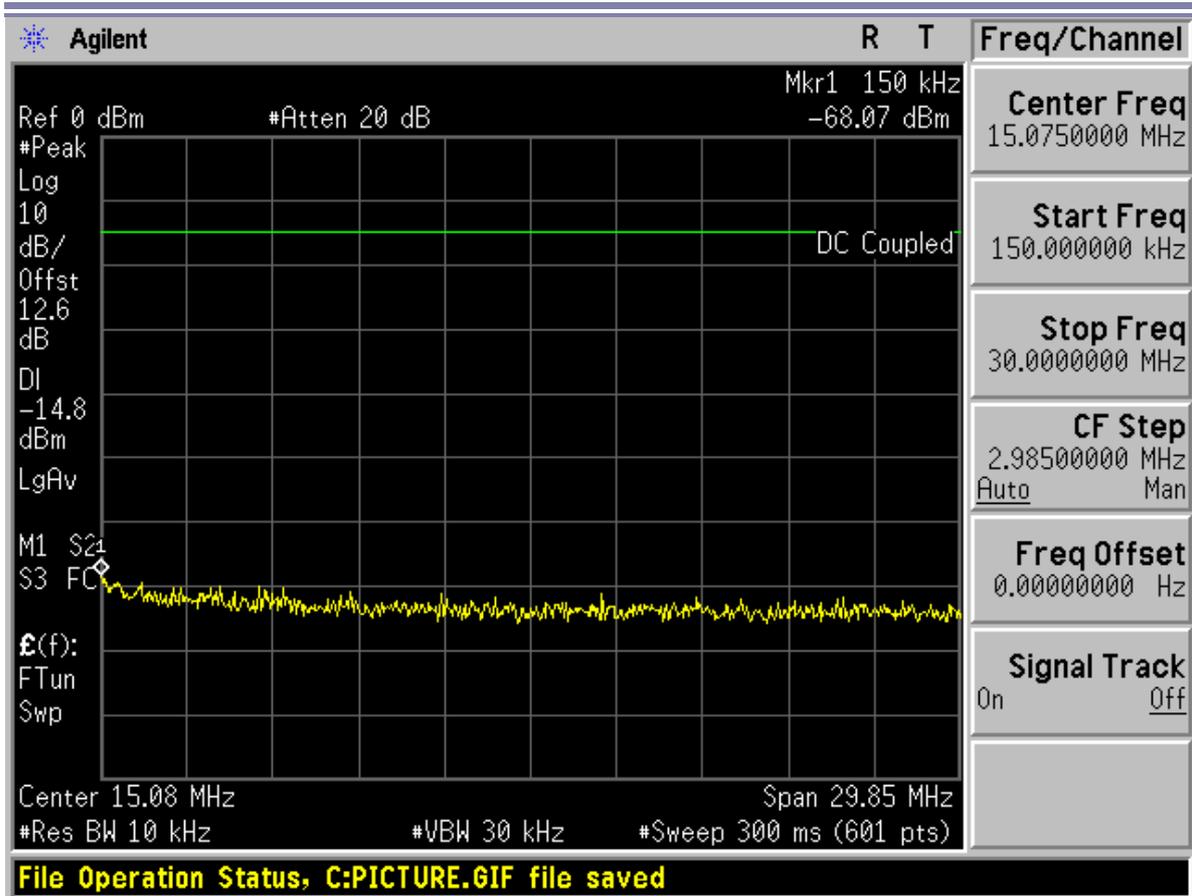
Conducted RF spurious

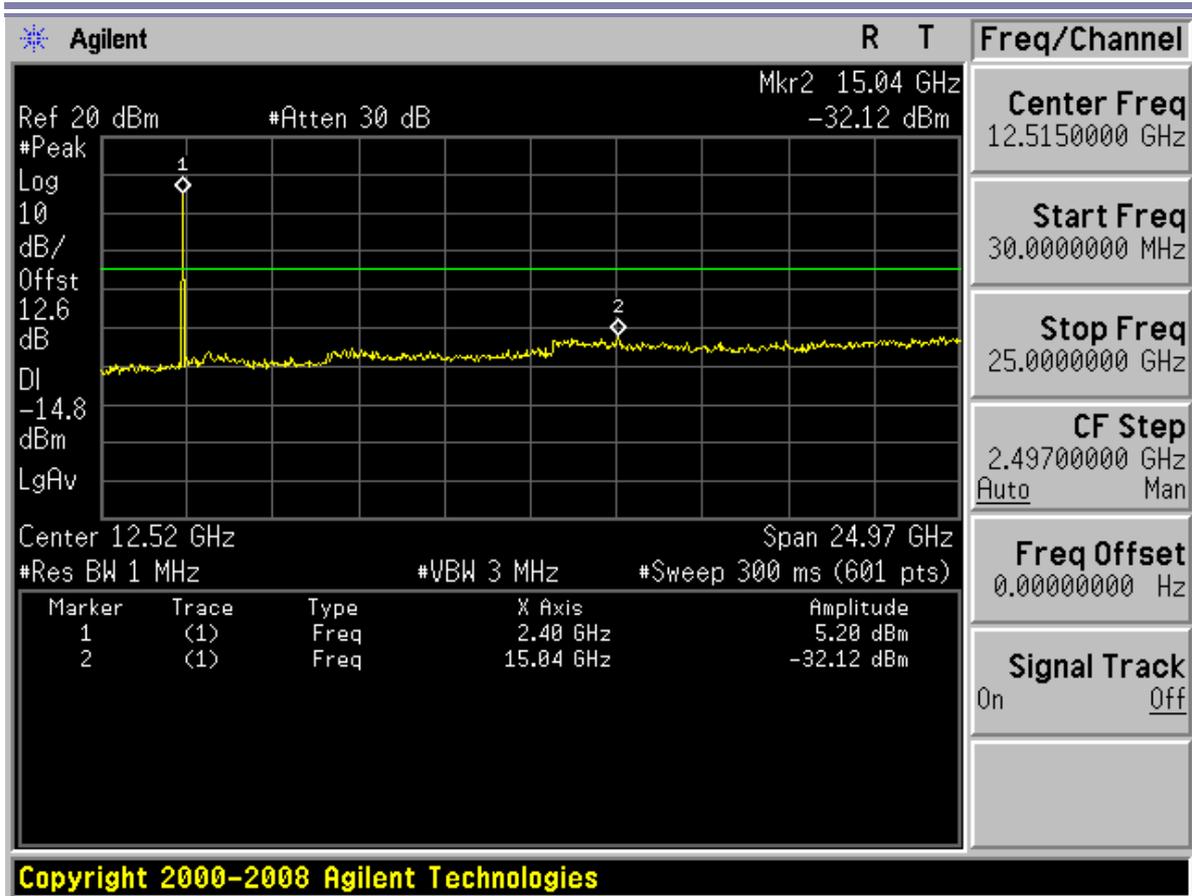
According to FCC Part 15.247 (d)



Channel 0

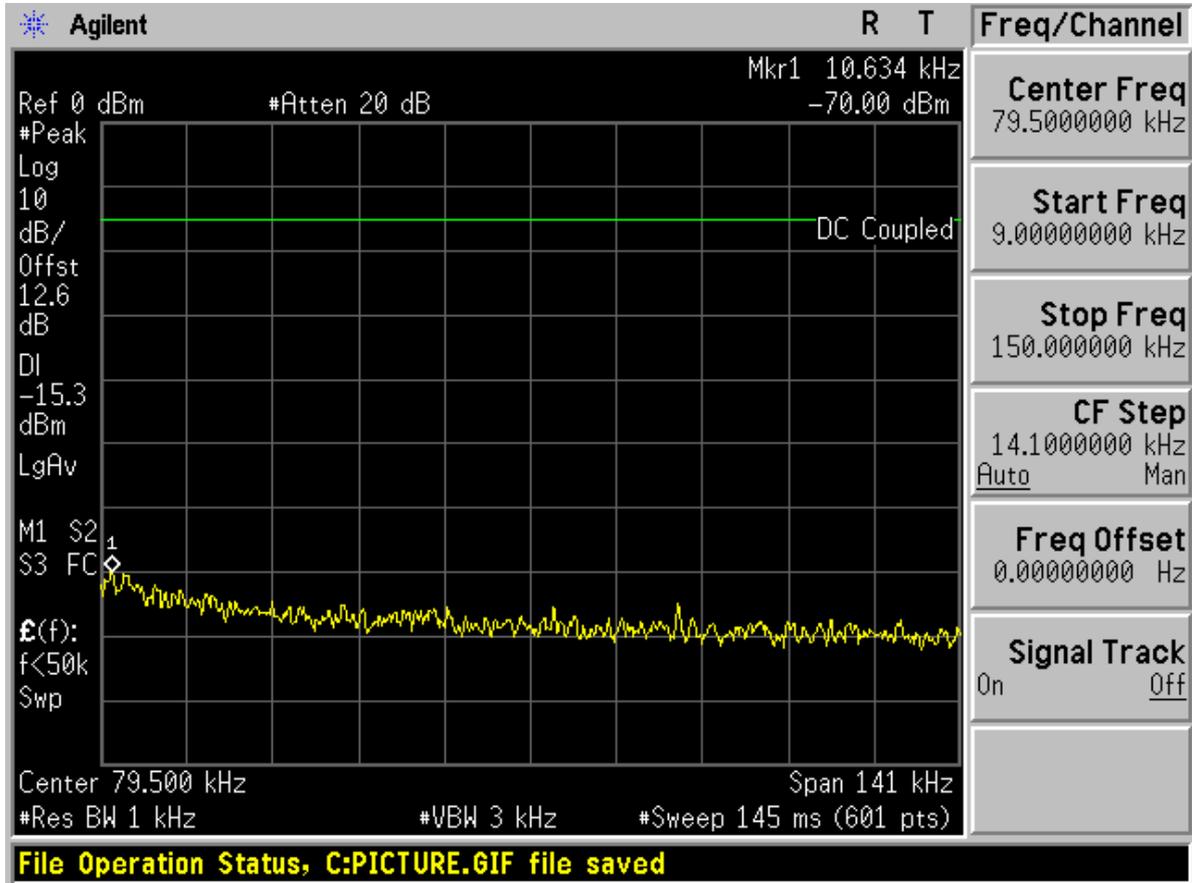


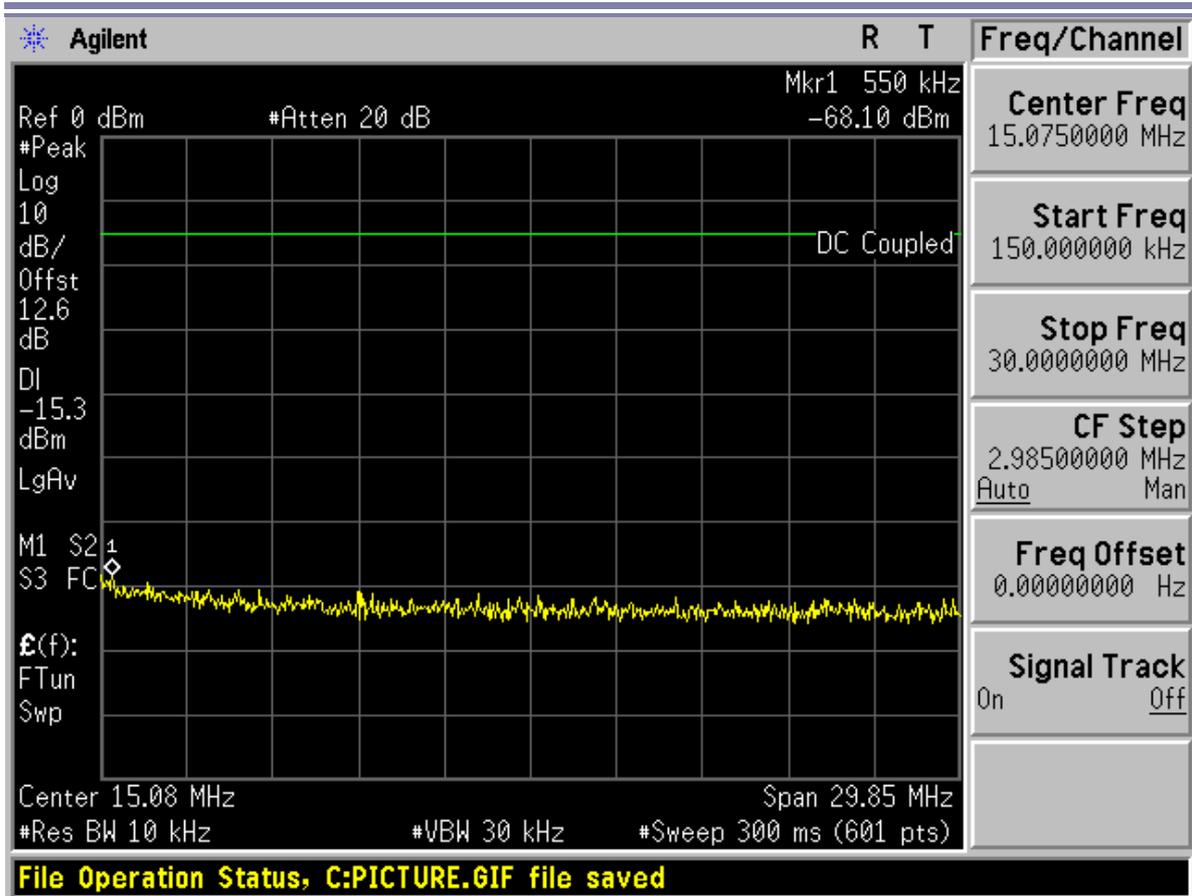


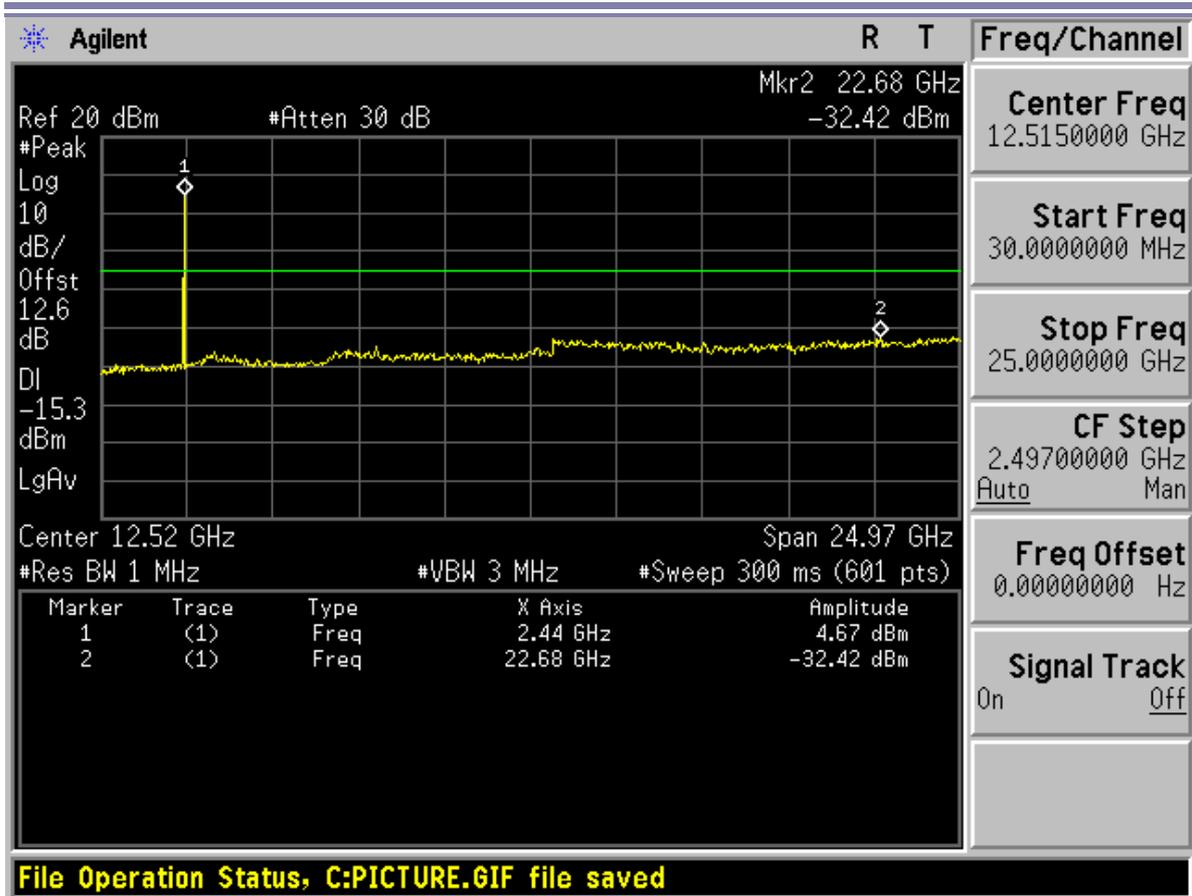




Channel 40

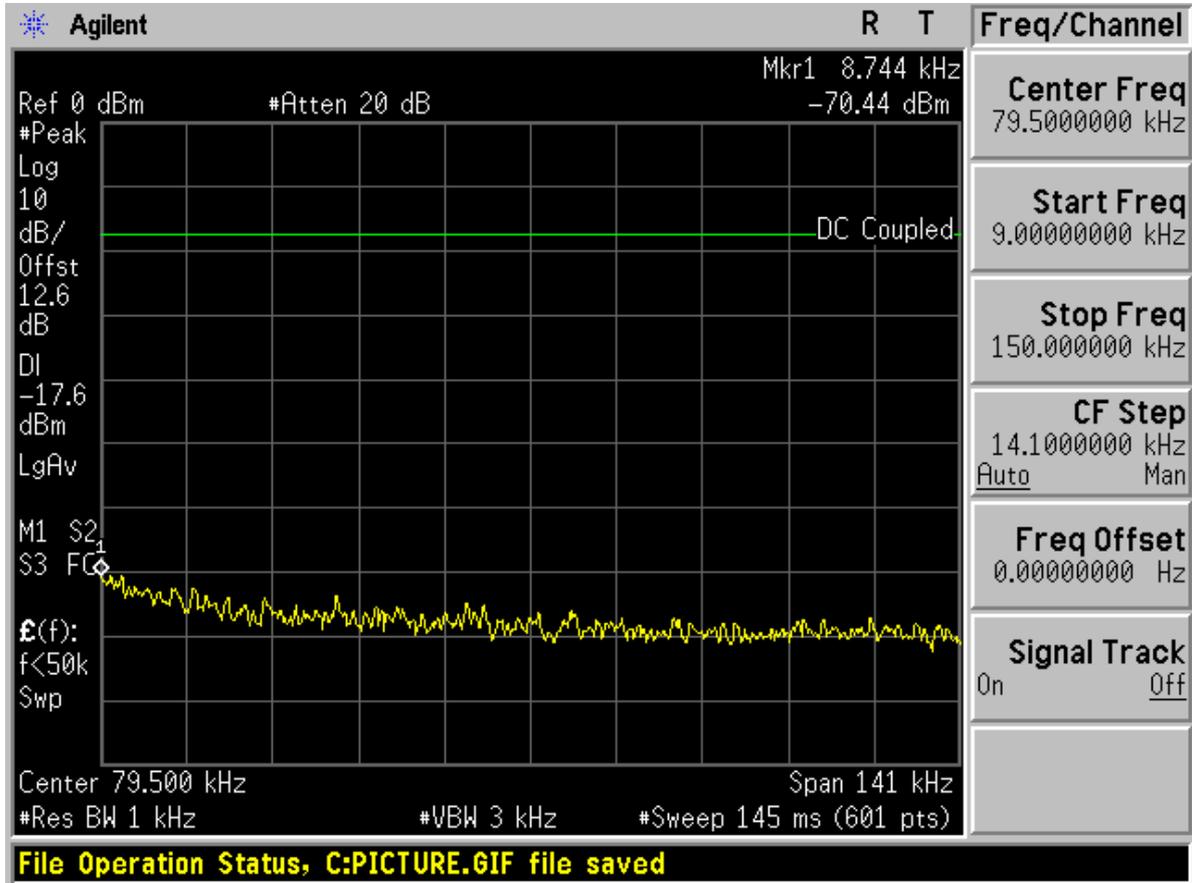


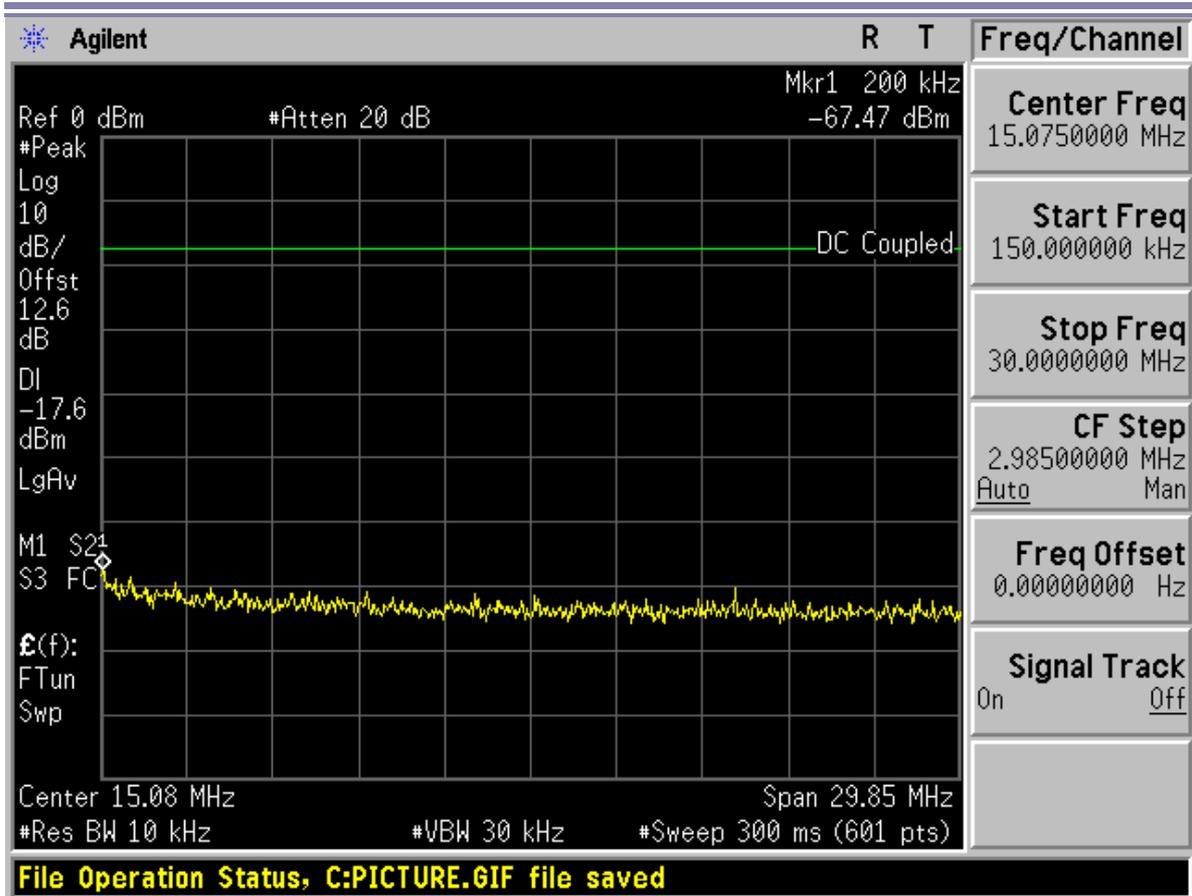


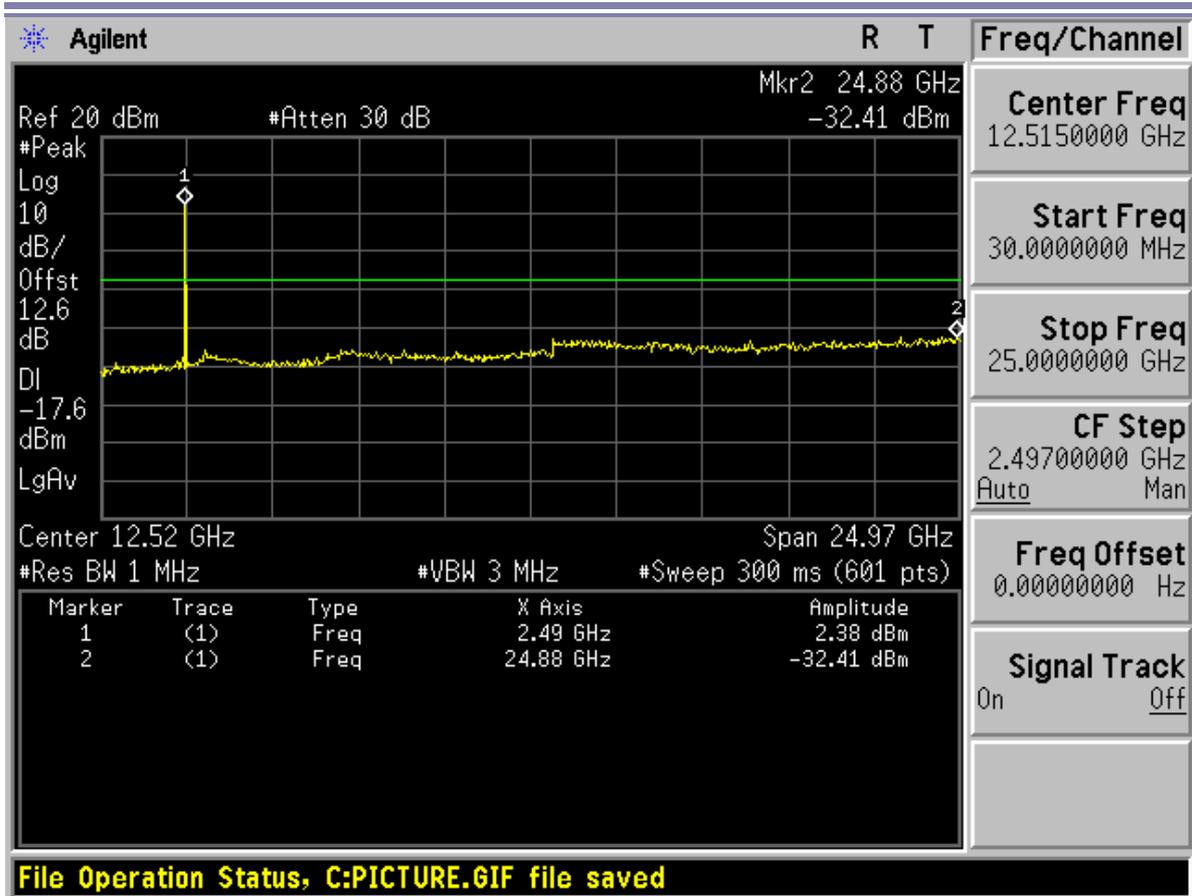




Channel 78









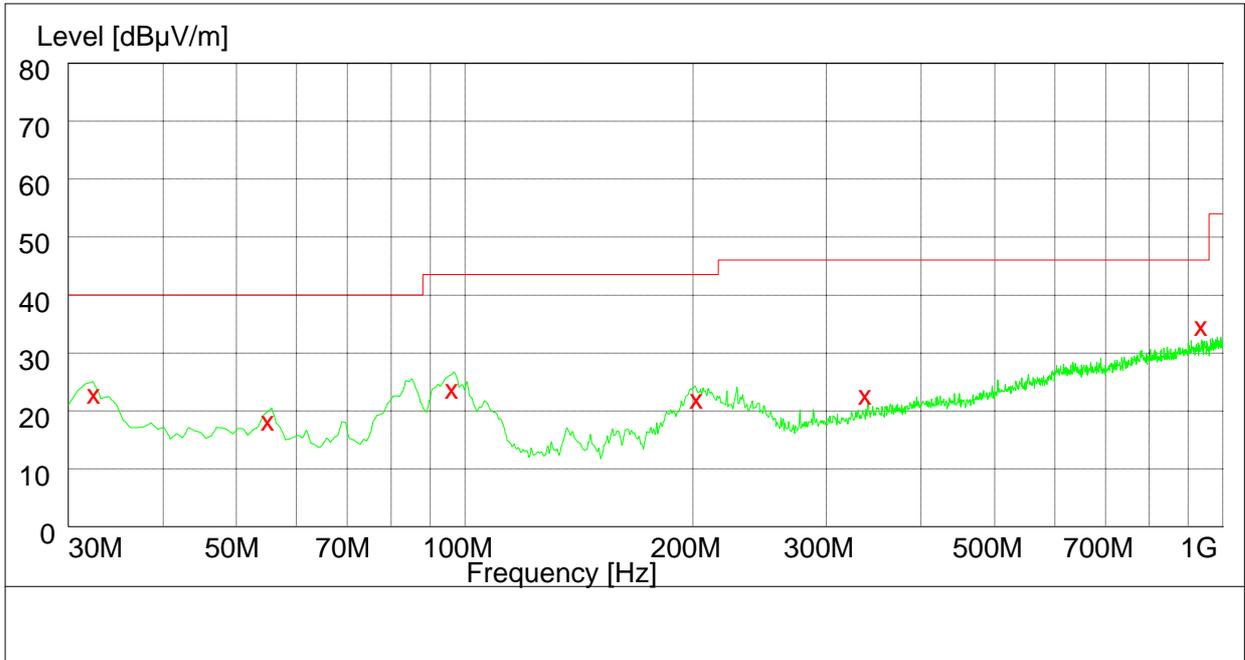
Appendix H

Radiated spurious emission

According to FCC Part 15.247 (d) & 15.205 & 15.209



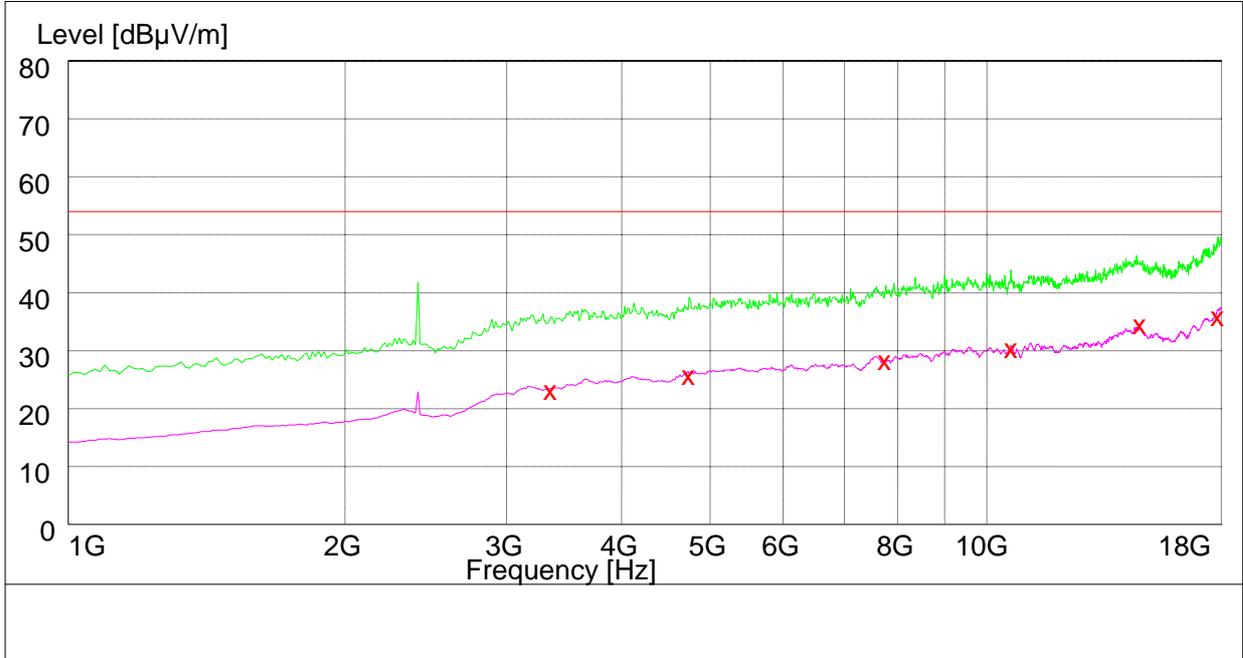
Channel 0 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
32.460000	22.70	11.7	40.0	17.3	100.0	106.00	VERTICAL
55.140000	19.40	12.6	40.0	20.6	100.0	360.00	VERTICAL
96.420000	24.00	12.9	43.5	19.5	200.0	107.00	HORIZONTAL
202.620000	23.20	12.2	43.5	20.3	100.0	0.00	VERTICAL
338.400000	23.80	16.8	46.0	22.2	183.0	67.00	VERTICAL
938.220000	35.70	26.5	46.0	10.3	123.0	209.00	HORIZONTAL



1GHz to 18GHz



Note: Signal suppressed with a 2.4 GHz band rejection filter

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
3356.000000	23.10	-7.9	54.0	30.9	154.0	235.00	HORIZONTAL
4743.000000	26.00	-4.2	54.0	28.0	240.0	308.00	VERTICAL
7756.500000	27.80	1.7	54.0	26.2	257.0	345.00	HORIZONTAL
10633.000000	30.30	6.1	54.0	23.7	134.0	359.00	VERTICAL
14175.000000	34.00	11.4	54.0	20.0	125.0	315.00	HORIZONTAL
17861.500000	36.50	16.4	54.0	17.5	102.0	357.00	VERTICAL

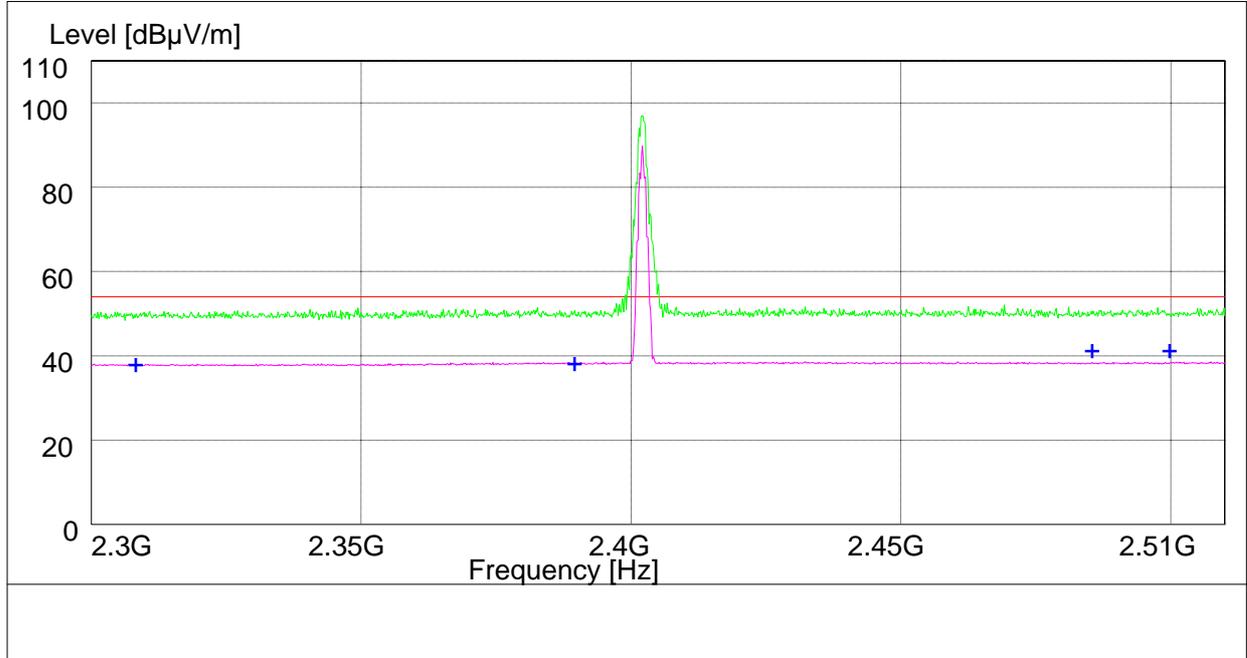


18GHz to 26GHz

Note: No peak found in pre- test.



2GHz to 3GHz

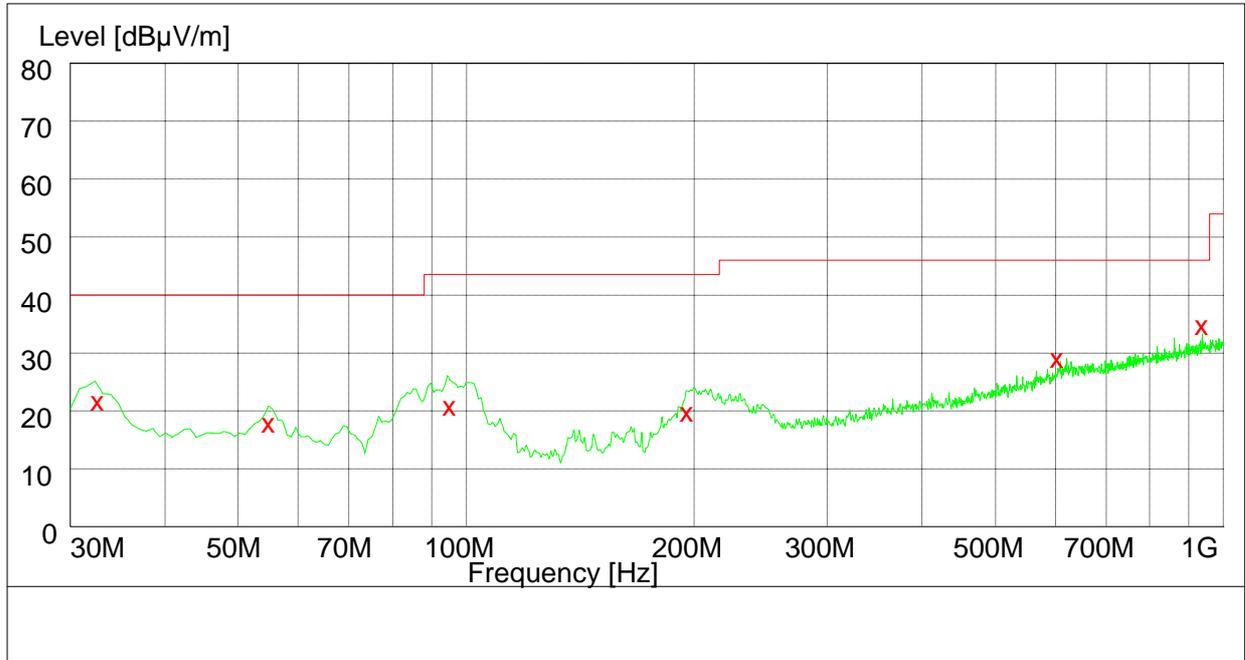


Note: The highest peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	38.50	33.3	54.0	15.5	225.0	128.00	VERTICAL
2390.000000	38.80	33.5	54.0	15.2	154.0	162.00	VERTICAL
2483.500000	40.30	33.7	54.0	13.7	174.0	144.00	HORIZONTAL
2500.000000	40.80	33.8	54.0	13.2	145.0	132.00	HORIZONTAL



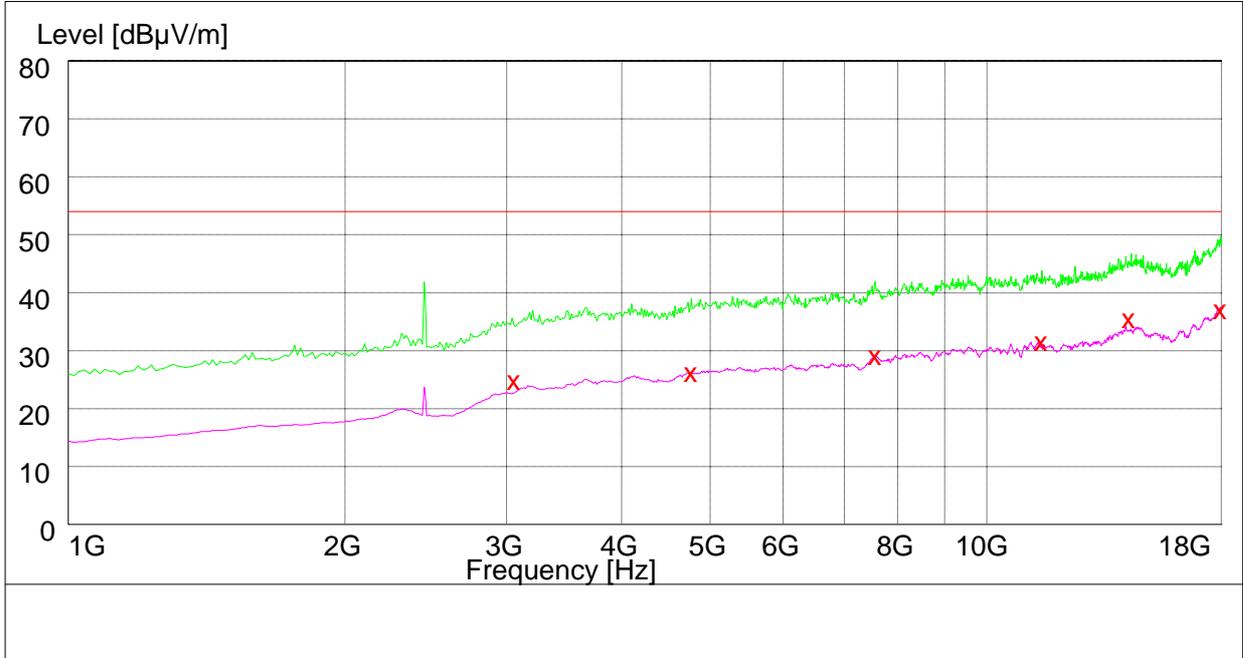
Channel 40 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
32.640000	22.90	11.7	40.0	17.1	100.0	125.00	VERTICAL
54.900000	19.10	12.6	40.0	20.9	181.0	88.00	HORIZONTAL
95.220000	20.70	12.8	43.5	22.8	210.0	360.00	HORIZONTAL
195.960000	20.30	12.0	43.5	23.2	254.0	0.00	VERTICAL
603.840000	30.20	22.5	46.0	15.8	163.0	296.00	HORIZONTAL
938.220000	35.90	26.5	46.0	10.1	154.0	121.00	HORIZONTAL



1GHz to 18GHz



Note: Signal suppressed with a 2.4 GHz band rejection filter

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
3015.000000	28.30	-9.0	54.0	25.7	100.0	52.00	HORIZONTAL
4770.000000	25.90	-4.1	54.0	28.1	231.0	359.00	HORIZONTAL
7561.500000	28.50	1.6	54.0	25.5	154.0	163.00	VERTICAL
11479.000000	30.00	6.8	54.0	24.0	124.0	328.00	HORIZONTAL
14264.500000	34.20	11.7	54.0	19.8	133.0	147.00	VERTICAL
17999.500000	37.00	17.3	54.0	17.0	109.0	332.00	VERTICAL

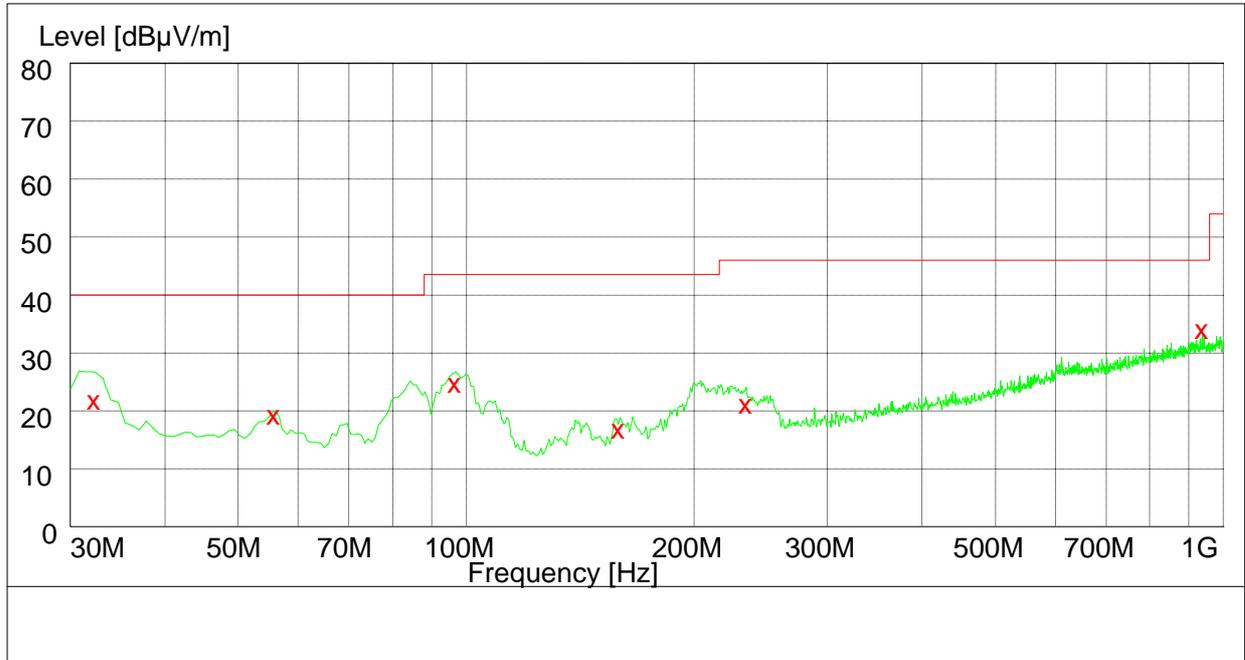


18GHz to 26GHz

Note: No peak found in pre- test.



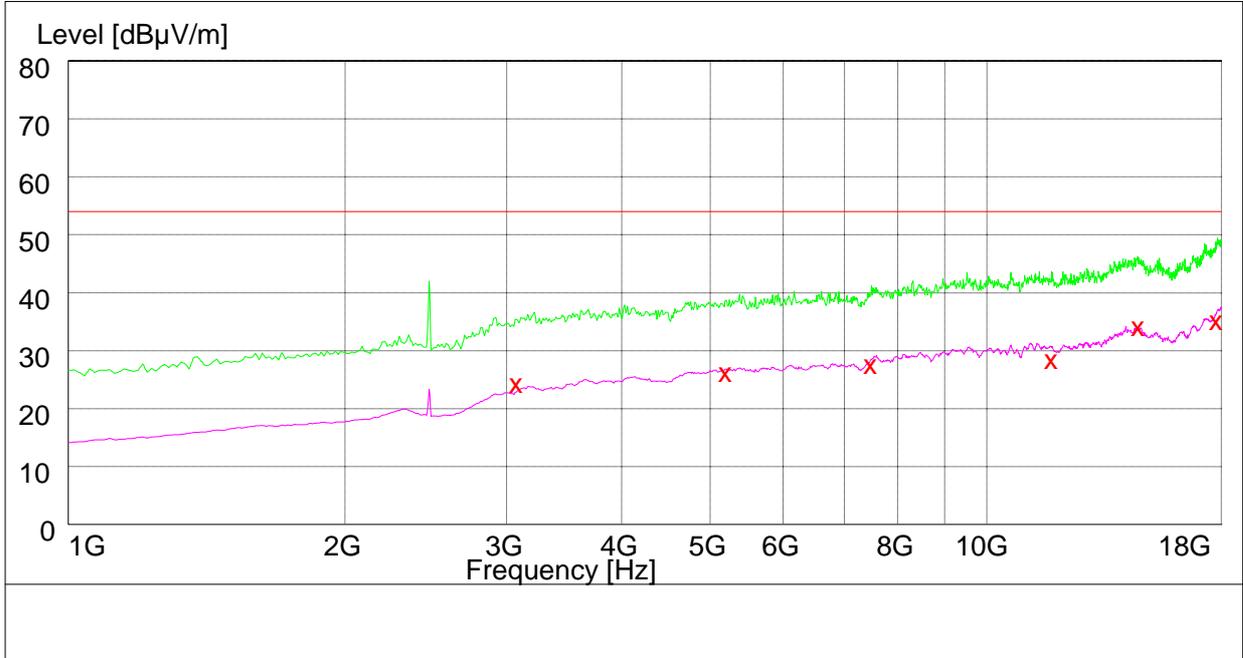
Channel 78 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
32.280000	22.20	11.7	40.0	17.8	109.0	107.00	HORIZONTAL
55.740000	19.20	12.6	40.0	20.8	168.0	87.00	VERTICAL
96.720000	24.20	12.9	43.5	19.3	199.0	109.00	HORIZONTAL
159.060000	18.00	9.5	43.5	25.5	100.0	1.00	VERTICAL
234.240000	21.50	13.8	46.0	24.5	100.0	57.00	HORIZONTAL
938.220000	35.30	26.5	46.0	10.7	131.0	63.00	VERTICAL



1GHz to 18GHz



Note: Signal suppressed with a 2.4 GHz band rejection filter

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
3046.500000	28.60	-9.0	54.0	25.4	234.0	50.00	HORIZONTAL
5202.000000	26.50	-3.1	54.0	27.5	254.0	70.00	VERTICAL
7480.500000	27.90	1.4	54.0	26.1	102.0	200.00	HORIZONTAL
11763.500000	29.70	7.0	54.0	24.3	124.0	1.00	HORIZONTAL
14264.500000	34.20	11.7	54.0	19.8	133.0	147.00	VERTICAL
17988.500000	37.20	17.2	54.0	16.8	100.0	111.00	VERTICAL

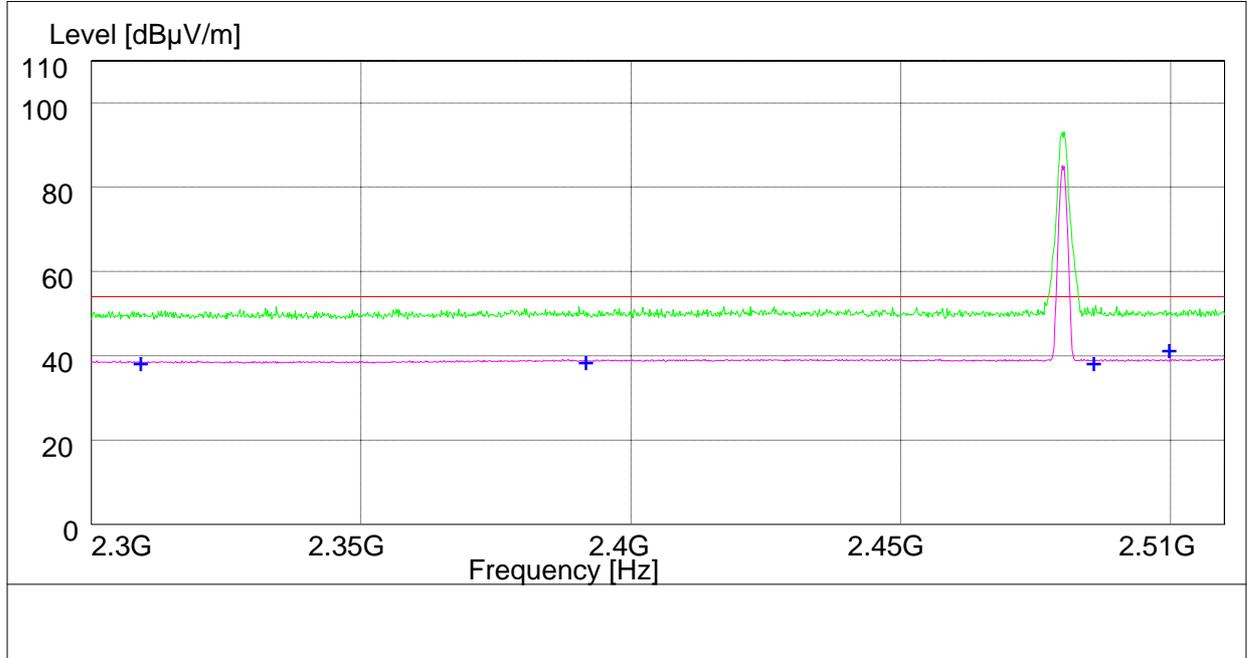


18GHz to 26GHz

Note: No peak found in pre- test.



2GHz to 3GHz



Note: The highest peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	38.50	33.3	54.0	15.5	112.0	125.00	HORIZONTAL
2390.000000	38.60	33.5	54.0	15.4	172.0	145.00	VERTICAL
2483.500000	38.90	33.7	54.0	15.1	140.0	320.00	VERTICAL
2500.000000	40.40	33.8	54.0	13.6	254.0	0.00	HORIZONTAL



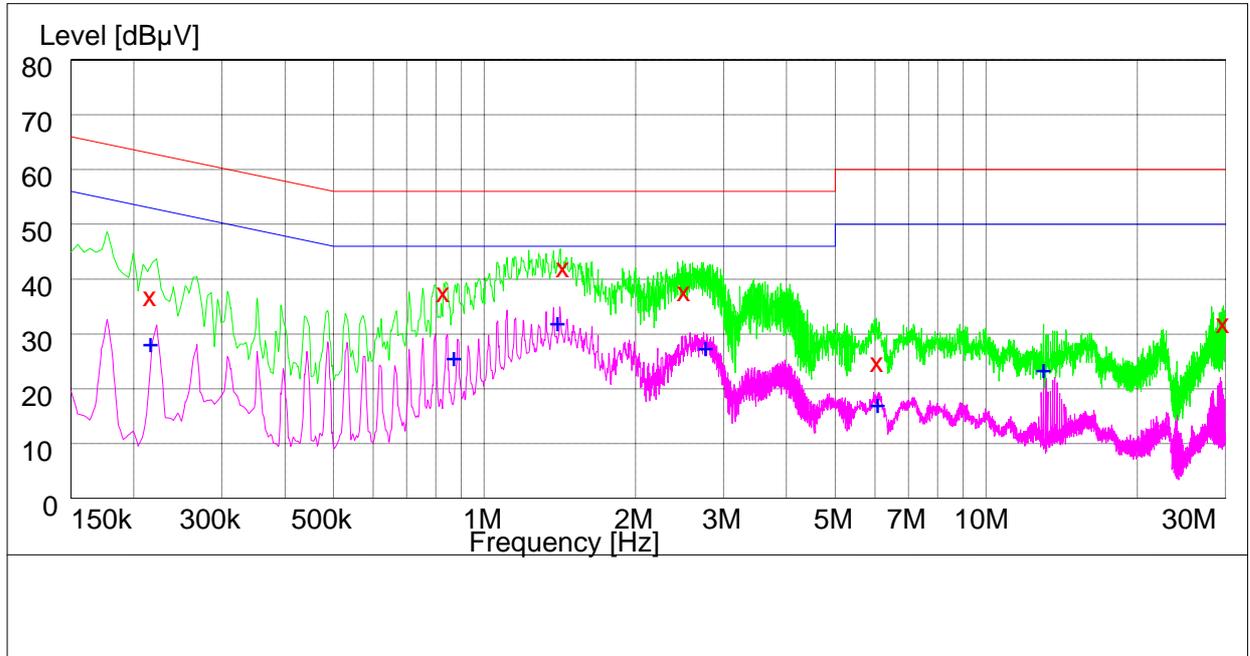
Appendix I

Conducted Emission at Power Port

According to FCC Part 15.207



Channel 40



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.216000	38.10	10.0	63	24.9	L1	FLO
0.830000	38.90	10.1	56	17.1	N	FLO
1.440000	43.40	10.1	56	12.6	N	FLO
2.508000	39.10	10.1	56	16.9	N	FLO
6.078000	26.10	10.2	60	33.9	N	FLO
29.744000	33.20	10.4	60	26.8	L1	FLO

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.216000	29.50	10.0	53	23.5	N	FLO
0.868000	27.10	10.1	46	18.9	N	FLO
1.396000	33.30	10.1	46	12.7	N	FLO
2.764000	28.80	10.2	46	17.2	N	FLO
6.082000	18.50	10.2	50	31.5	N	FLO
13.012000	24.80	10.3	50	25.2	N	FLO